

marantz®

AV Receiver
SR9600



SR9600 THX Ultra2 AV Receiver

The SR9600 is simply the best surround THX Ultra2 receiver we've ever offered. It surpasses the performance levels of even separate components in both sheer brawn and subtle sophistication. THX Ultra2 certification - and power output of 140 Watts RMS from each of its seven current-feedback amplifiers - means the SR9600 will recreate the sonic impact of dynamic movie soundtracks in the largest rooms. Technologies like THX Ultra2 specification provide uncompromised enveloping 7.1 channel playback of any multi-channel program, whether it's movie soundtracks or music, over the widest possible seating area. With a fully discrete 7 channel Current Feedback amplifier section capable to deliver 140 watts of high current amplification, the SR9600 ensures an incredibly fast dynamic performance and delivers a continuously clean and stable power into each of the 7 channels. The wide array of connections and outputs, its state of the art 4 DSP chipset and its top quality performance make the SR9600 an enduring investment.



because music matters

R A N G E S E R I E S

Features

- New top grade dual 32-bit Digital Signal Processing by Cirrus Logic
- Wide range full discrete 7 channel Current Feedback power amplifiers
- IEEE1394 digital interface with flow rate control
- Top grade audio components, toroidal transformer, system block shielding and copper plated chassis
- HDAM-SA2 on all 8 channels
- MRAC Advance
- HDMI1.1 switching
- Top class video conversion with line memory
- CI-Friendly
- Multi room/multi source system with dual tuner function

Benefits

- For a smoother and more realistic surround sound reproduction without the loss of any single detail
- Excellent frequency response and superb sonic performance for the highest standard such as SACD and DVD-Audio
- Uncompromised jitter-free digital audio data transmission for the high resolution formats as SACD and DVD-A in stereo and multichannel.
- To ensure the renown premium Marantz sound reproduction in multichannel and stereo
- Achieving a more dynamic, accurate and detailed sound reproduction regardless the amount of channels
- The best sound for your room – automatically
- Single cable solution for a digital full bandwidth digital video and audio signal transmission
- The highest analogue quality from all sources connected via a single component connection
- Flexible system integration and total control in any environment
- Allows independent audio and video source selection and control for two additional rooms

Technological glossary:

The solution for the future

The high performance SR9600 details our heritage of technical excellence in the highest segment of Home Theatre Systems. Intelligent cooling assures long term stability, even under the most demanding conditions. Analog preamp circuitry features wideband HDAM-SA2 modules. The oversized power supply includes a toroidal transformer and large Marantz-designed storage capacitors for quick response to rapidly varying sources. Dual 32-Bit microprocessors handle surround decoding and new advanced the 9-band parametric M.R.A.C. (Marantz Room Acoustic Calibration) adjustments with outstanding speed and accuracy. Connectivity includes IEEE 1394 and HDMI for accurate data transfer. The high resolution display makes control and adjustment easy. For the 7.1 channel input we have developed a new dedicated converter board with 8 channel 192kHz / 24bit analogue to digital conversion to make the lip sync, bass management and audio delay, etc available when needed. The SR9600 delivers the legendary sound quality that has made Marantz the number one choice of the most discriminating audiophile and home theatre enthusiasts. Multiroom with multi-source is a further capability of the SR9600 powering two additional zones with audio and video signals. To offer highest flexibility two tuners are built in. The SR9600 redefines the state-of-the-art in audio/video receiver.

MRAC advanced room setup

Based on our room acoustics knowledge and expertise already shown in previous products we have extended the functionality and optimized the Marantz Room Acoustic Calibration (MRAC) to call it MRAC Advance. With the supplied microphone placed on your listening position, the powerful DSPs analyze accurately and optimize the sound configuration for your listening room. Taking into account reflections from walls, ceiling and floor and knowledge about psycho acoustics, MRAC Advance optimizes the sound for the room acoustics. The SR9600 recognize the connected speakers and automatically adjust size, trim, distance and acoustical frequency response. The MRAC advance comes along with a 9-band equalizer for an optimized frequency response. All these settings will be done automatically by a single push on a button. The Marantz Room Acoustic Calibration achieves the ideal sound field for each and every room.

IEEE1394 digital audio output with Flow Rate Control

The IEEE 1394 easy-to-use and high-speed bus easily handles multimedia bandwidth requirements and provides an universal interface for a variety of devices. By allowing seamless data exchange between the SR9600 and a DVD player it enables the new generation of Marantz A/V devices to operate in a common environment. This digital connection ensures that data streams of high resolution formats like SACD and DVD-A are transferred without changing the integrity of the digital signal for both multichannel and stereo. To produce the high resolution music of SACD and DVD Audio accurately we have incorporated Flow Rate Control. In combination with the DV9600 the signal transfer speed is controlled and with the high quality clock, build in to the SR9600, the original digital bit stream is regenerated. Any jitter created due to the signal transmission process is eliminated by this clock. To enable post-processing of the DSD signal the SR9600 contains a top quality 32-bit/225 MHz DSP. This DSP converts the DSD signal to PCM providing the user the possibility to have for example bass management and multiple other settings adjustments. In DSD Direct mode the conversion circuitry is bypassed and the integrity of the original DSD signal is preserved reproducing every musical emotion as the creator of the music intended.

High-Definition Multimedia Interface V1.1 (HDMI)

HDMI combines high-definition video and superb audio in a single digital interface with a bandwidth of up to 5 Gigabits/second. HDMI1.1 on the SR9600 complies with High-bandwidth Digital Content Protection (HDCP) technology protecting high-value content from unauthorized reproduction and distribution. HDMI1.1 is the only interface in consumer electronics that can carry both high-definition video and multi-channel audio (e.g. Dolby Digital and DTS) in all HD formats, including 720p, 1080i and even the upcoming 1080p. With only a single cable connection all information can be transmitted including commands to simply control the entire system.

Video conversion

SR9600 is equipped with a high quality video conversion. It can up convert the Composite signal to S-Video/Component and S-Video to Component; as well as down conversion from S-Video to composite (the component signal is not down converted).

This video converter contains two important circuit blocks, Y/C Separation and Component Video Decoding. These circuitries ensure excellent conversion and to prevent synchronization and quality erosion problems. The high quality conversion circuitry consists for example; 4H line memory, Vertical edge enhancer, time based corrector, a triple 10-bit DAC, field locking, VCR detection and anti aliasing filtering. The SR9600 provides you the highest analogue quality from all sources connected via a single component connection.

Surround at its best

The SR9600 incorporates the most advanced Digital Signal Processing circuitry currently available. Dual 32-Bit microprocessors handle surround decoding with outstanding speed and accuracy.

Current Feedback power amplification

The SR9600 features a fully discrete 7 channel amplifier section capable of delivering 140 watts (8ohm RMS) of high-current amplification, for continuously clean and stable power into each of the 7 channels. It employs a massive toroidal power transformer in combination with specially selected high grade oversized filter capacitors in a copper plated chassis.

Multiroom with multi-source

With the Marantz AV system placed in the main room of the house, a second and even a third loudspeaker set can be placed in two separate rooms. In those rooms an audio source can be selected independently from the main room at a different sound level and with full remote control functionality. Not only sound but also video sources can be viewed and remotely controlled in the same way. The two build-in independent AM/FM tuners let you listen to different stations in different areas of your home at the same time.

Surround sound via your stereo headphone

Dolby Headphone technology allows users to listen to music, watch movies, or play video games with the dramatic surround effects of a 5.1-channel soundtrack through any set of headphones.

Matching audio and video

The digital processing and scaling of video displays can create a slight delay in the video signal. This can be corrected with sound delay adjustable in increments of 10ms steps from 0200ms.

At the heart of Customized home installation

The 9600 is equipped with a multitude of Component terminals to connect your video source through the centre of your home entertainment. It features multi room/multi source, Dual Monitor out, speaker A/B switching, 4 assignable 12 Volt DC triggers, 4 IR emitter outputs, A IR receiver input a RS232c communication port, high grade - heavy duty - speaker binding posts and an extensive array of both analog and digital in-outputs. With 8 assignable digital inputs (9 in total), 4 component inputs, SACD Multi-Channel (7.1 channel) direct input, two of each IEEE1394 and HDMI1.1 inputs and last but not least a HDMI1.1 output, versatility is taken to a new stunning level. It lets the SR9600 function in virtually any custom-designed home theater system.

Environmental friendly

Every electronic equipment product is built of single electrical components that are made of different material and substances. Marantz assure that the components used in our products are free of any dangerous material or substance to keep our environment clean. We have for example removed hazardous substances like lead in the solder.

Bypacked accessoires

- User manual
- Power cable
- Remote control
- RS232C cable
- Microphone
- Front AUX cover
- FM antenna
- AM loop antenna
- Batteries

RC3200



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FEATURES

MULTICHANNEL SURROUND

THX Ultra II / Select II •/-
 THX Surround EX •
 DTS 5.1 / DTS ES / DTS 96/24 •/•/
 Dolby Digital / Dolby Digital EX •/•/•/•/
 / DPL / DPL II / DPL IIx
 Circle Surround II •
 Virtual Surround / Multichannel Stereo •/
 HT-EQ / Re-EQ -/
 Headphone Surround Dolby Headphone
 HDCD Decoder •
 WMA Pro / WMA / MP-3 decoder -/-

SOUND ENHANCEMENTS

Current Feedback Topology •
 Real full channel power drive (70%)
 Discrete Amplification (All)
 Pure Direct
 Power Transformer: Super Ring/
 Toroidal/EI -/-
 Linear Drive Power Supply (LDPS)
 Copper Plated Chassis
 DAC (192kHz/24-bit / 96kHz/24-bit) •/
 Digital Processing: (32-bit / 64-bit) •/
 System block shielding: Copper / Metal •/
 High Grade Audio Components
 Customised Components
 HDAM: (Standard / SA / SA2 /
 Current Feedback) -/-
 Intelligent Silent Cooling system
 Chassis : (Die-cast / Copper plated /
 Metal) -/-
 Chassis Stabilisation Bracing
 Double Layer Bottom Plate

OTHERS

MRAC (Marantz Room Acoustic
 Corrections) (plus)
 Easy setup
 Front panel cursor control
 On Screen Display: main / multiroom •/
 Variable cross over
 Lip sync control
 Video conversion • CVBS/S/COMP
 T.B.C. - time base correction
 HDMI video switching
 HDMI up conversion
 HDMI IP conversion
 Multiroom zones
 Speaker A/B

Bi-amp drive (5.1 ch setting) / Speaker •/
 C
 Tuner
 GYRO Touch Tuning
 Random Tuner Presets 50
 RDS: PTY/PS/CT/TA/TP •/•/•/•/
 Auto TV Switching (On/Off)
 Discrete RC coding (Main- /
 Multiroom)
 RS232C (control / update)

IN/OUTPUTS

VIDEO

Composite In/Out 7/3
 S-Video In/Out 7/3
 Component In/Out 4/2
 HDMI in/out (version x.x) 2/1
 Multi-Room Video Out: CVBS / S-
 Video / Component •/-

AUDIO

Analogue In/out 9/3
 Digital Optical In/Out 5/1
 Digital Coaxial In/Out 4/1
 IEEE 1394 - Firewire - i-Link
 Multi-Room Audio Out 2
 Pre Out / Main In (7.1ch)
 Multichannel in
 Headphone Out •/7

OTHER

Speaker Terminal: Gold plated screw /
 regular screw (all) •/-
 Multi-Room Speaker Terminal 1 zone
 Multi-Room D.Bus In/Out •
 D.Bus In/Out •
 IR Receiver In / Emitter Out 1/4
 IR Flasher In 1
 RS232C •
 DC Triggers 4
 Front Inputs: Audio / Composite /
 S-Video / Digital (Opt) •/•/•/
 I-Pod input (direct / docking station) -/•

SPECIFICATIONS

AUDIO SECTION

Power Output (8/4 Ohm RMS) 140/- watts
 Signal to Noise Ratio 104 dB
 D/A Converter CS439x
 Digital Signal Processor CS49500

TUNER SECTION FM

Frequency Range 87.5-108.00 MHz
 Signal to Noise Ratio (mono/
 stereo) 76 / 72x
 dB

TUNER SECTION AM

Frequency Range 531-1602 kHz
 Signal to Noise Ratio 50dB

VIDEO SECTION

Input level/impedance 1 Vp-p/75 ohm
 Output level/impedance 1 VP-p/75 ohm
 Video frequency response 5-30MHz
 Component frequency
 response 5 to
 100MHz

GENERAL

Available colors: Platinum/Gold/ -/-
 Silver/Black
 Metal Front Panel •
 System Remote Control RC3200
 Pre-programmed / Learnable / Touch •/•/
 Screen
 Power Consumption 750 W
 Detachable Power Cable •
 Maximum Dimensions (W 440 x 218 x
 x D x H) 483 mm
 Weight 26.0 kg

Design and specifications are subject
 to change by Marantz without notice.

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